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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

10/21/2004

Steven Fischman, Esq. Scully, Scott, Murphy & Presser 400 Garden City Plaza Garden City, NY 11530 EXAMINER

NGUYEN, DUNG T

ART UNIT PAPER NUMBER

2828 DATE MAILED: 10/21/2004

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|-------------------------|------------------|
| 09/865.256 | 05/25/2001 | Casimer M. DeCusatis | FIS920010069US1 (14401) | 3977 |

TITLE OF INVENTION: APPARATUS AND METHOD FOR WAVELENGTH-LOCKED LOOPS FOR SYSTEMS AND APPLICATIONS EMPLOYING ELECTROMAGNETIC SIGNALS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE | PUBLICATION FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|-----------|-----------------|------------------|------------|
| nonprovisional | NO | \$1370 | \$300 | \$1670 | 01/21/2005 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above
- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

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or <u>Fax</u>

(703) 746-4000

| appropriate All further cort | espondence including the I elow or directed otherwise | atent advance or | lers and notific | cation of maintenance fees whew correspondence address; | rill be mailed to the current | correspondence address as |
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| | E ADDRESS (Note: Use Block 1 for | any change of address) | | Fee(s) Transmittal. The papers. Each additional | mailing can only be used for is certificate cannot be used for a carrier such as an assignment of mailing or transmission. | for any other accompanying |
| 75 | | | | | of mailing or transmission. | |
| Steven Fischman, | | | | Cer | tificate of Mailing or Trans | mission g denosited with the United |
| Scully, Scott, Murp 400 Garden City Pla | | | | States Postal Service v addressed to the Mail | is Fee(s) Transmittal is bein with sufficient postage for fir Stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE address TO (703) 746-4000, on the control of the stop ISSUE FEE Address TO (703) 746-4000, on the control of the stop ISSUE FEE Address TO (703) 746-4000, on the control of the stop ISSUE FEE Address TO (703) 746-4000, on the control of the stop ISSUE FEE Address TO (703) 746-4000, on the control of the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE Address TO (703) 746-4000, on the stop ISSUE FEE | st class mail in an envelope above, or being facsimile |
| Garden City, NY 11 | | | | transmitted to the USP | TO (703) 746-4000, on the o | |
| | | | | | | (Depositor's name) |
| | | | | | | (Signature) |
| | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | 1 | FIRST NAMED I | INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 09/865,256 | 05/25/2001 | | Casimer M. D | DeCusatis | FIS920010069US1 (14401) | 3977 |
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| nonprovisional | NO | \$1370 |) | \$300 | \$1670 | 01/21/2005 |
| EXAM | INER | ART UN | IT | CLASS-SUBCLASS | | |
| NGUYEN, | DUNG T | 2828 | | 372-018000 | | |
| ☐ "Fee Address" indicat | ence address (or Change of 2) attached. | Correspondence | (1) the name or agents Ol (2) the name registered at | ng on the patent front page, li es of up to 3 registered pater R, alternatively, e of a single firm (having as a ttorney or agent) and the name patent attorneys or agents. If | a member a 2es of up to | |
| Number is required. | r more recent) attached. Use | of a Customer | listed, no na | me will be printed. | | |
| 3. ASSIGNEE NAME AND | | | | | | |
| PLEASE NOTE: Unless recordation as set forth in | an assignee is identified be 37 CFR 3.11. Completion | elow, no assignee of this form is NO | data will appea Γa substitute fo | er on the patent. If an assign or filing an assignment. | nee is identified below, the o | document has been filed for |
| (A) NAME OF ASSIGNI | 3E | (B |) RESIDENCE | E: (CITY and STATE OR CO | UNTRY) | |
| Please check the appropriate | assignee category or catego | ries (will not be pr | inted on the pat | tent): 🗖 Individual 📮 C | orporation or other private gr | oup entity Government |
| 4a. The following fee(s) are | enclosed: | 4t | . Payment of F | ee(s): | | |
| Issue Fee | | | A check in the amount of the fee(s) is enclosed. | | | |
| | mall entity discount permitte | | Payment by credit card. Form PTO-2038 is attached. | | | |
| Advance Order - # of Copies | | | The Direct Deposit Account | tor is hereby authorized by c unt Number | harge the required fee(s), or enclose an extra | credit any overpayment, to copy of this form). |
| 5. Change in Entity Status | | | _ | | | |
| | MALL ENTITY status. See | | | nt is no longer claiming SMA | | |
| The Director of the USPTO NOTE: The Issue Fee and Printerest as shown by the reco | is requested to apply the Issuablication Fee (if required) words of the United States Paters | ne Fee and Publica vill not be accepted ent and Trademark | tion Fee (if any I from anyone of Office. | or to re-apply any previous other than the applicant; a reg | ly paid issue fee to the applic istered attorney or agent; or t | ation identified above. the assignee or other party in |
| Authorized Signature | | | | Date | | |
| Typed or printed name | | | | Registration | No | |
| This collection of information | on is required by 37 CFR 1.3 | 11. The information | on is required to | o obtain or retain a benefit by | the public which is to file (ar | nd by the USPTO to process) |

an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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United States Patent and Trademark Office



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| 7: | 590 10/21/2004 | | EXAM | INER |
| Steven Fischman | | | NGUYEN, | DUNG T |
| Scully, Scott, Murg 400 Garden City P. | | | ART UNIT | PAPER NUMBER |
| Garden City, NY 11530 | | | 2828 | |
| | | | DATE MAILED: 10/21/200 | 4 |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 113 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 113 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



United States Patent and Trademark Office



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| | chman, Esq. | | | NGUYEN, | DUNG T |
| Scully, Sco 400 Garden | tt, Murphy & I City Plaza | Presser | | ART UNIT | PAPER NUMBER |
| | , NY 11530 | | | 2828 | - |

DATE MAILED: 10/21/2004

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because some fees will increase effective October 1, 2004. See Revision of Patent Fees for Fiscal Year 2005; Final Rule, 69 Fed. Reg. 52604, 52606 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is amended by revising paragraphs (a) through (c) to read as set forth below.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

(b) Issue fee for issuing a design patent:

(c) Issue fee for issuing a plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

| | Application No. | Applicant(s) | · · · · · · · · · · · · · · · · · · · |
|---|--|---|--|
| | 09/865,256 | DECUSATIS ET AL. | |
| Notice of Allowability | Examiner | Art Unit | ~ |
| | Dung (Michael) T Nguyen | 2828 | b |
| The MAILING DATE of this communication apperall daims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. This communication is responsive to 08/26/03. 2. The allowed claim(s) is/are 1-30,40,42-51 and 3238. 3. The drawings filed on 25 May 2001 are accepted by the Extended Communication is made of a claim for foreign priority unestable and the communication of the certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have | ars on the cover sheet with the county (OR REMAINS) CLOSED in this applied or other appropriate communication GHTS. This application is subject to and MPEP 1308. Taminer. Idea 35 U.S.C. § 119(a)-(d) or (f). | olication. If not include will be mailed in due on withdrawal from issue | d course. THIS e at the initiative |
| International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | | 5 11 | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | complying with the req | uirements |
| 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give | | | OTICE OF |
| 6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the | on's Patent Drawing Review (PTO- s Amendment / Comment or in the C | Office action of | back) of |
| 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT | | | lote the |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date | 5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendr 8. Examiner's Stateme 9. Other | (PTO-413), te ment/Comment | |

Application/Control Number: 09/865,256

Art Unit: 2828

DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: the Kuo prior art failed to disclose a vector cross product of the feedback signal and a dither modulation signal and the frequency characteristic of the feedback signal is two times the dither modulation frequency as recited in the claims. Therefore, claims 1-30, 32-38, 40, and 42-51 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Communication Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung (Michael) T Nguyen whose telephone number is (571) 272-1949. The examiner can normally be reached on 8:30 - 17:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Min Harvey can be reached on (571) 272-1835. The fax

Application/Control Number: 09/865,256

Art Unit: 2828

Page 3

phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-3329.

Michael Dung Nguyen

MINSUN OH HARVEY PRIMARY EXAMINER